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>> index biosci
FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
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SINCE FILE

FULL ESTIMATED COST

0.21 TOTAL SESSION 0.21

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUAINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHABS, BIOTECHAB, CAPIUS, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHAB, DIFER, DEFUN, DESME, DISSABS, DRUGB, CRAPA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DESME, DISSABS, DRUGB, DRUGGONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 17:04:38 ON 08 FEB 2006

70 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view search error messages that display as 0 $^{\circ}$ with SET DETAIL OFF.

=> 5 Nod1

FILE ADISINSIGHT
FILE AGRICOLA
FILE BIOENG
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FILE BIOTECHOS
FILE BIOTECHOO
FILE CAPIUS
FILE CAPIUS
FILE CROPU
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FILE DISSABS
FILE DISSABS
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FILE ESBIOBASE
FILE FEDRIP

30 22 18 54 71 42 S SEARCHED...
30 FILE GENBANK
22 FILE IFIPAT
18 FILE JICST-EPLUS

FILE LIFESCI
FILE MEDLINE
FILE PASCAL
FILE PROMT
FILE SCISEARCH
FILE TOXCENTER
FILE USPATFULL

FILE USPAT2

66 FILES SEARCHED...

FILE WPINDEX

32 FILES HAVE ONE OR MORE ANSWERS, 70 FILES SEARCHED IN STNINDEX

L1 QUE NOD1

"> s 11 and ((muramyl (w) tripeptide or mtp)
UNMATCHED LEFT PARENTHESIS 'AND ((MURAMYL'
The number of right parentheses in a query must be equal to the number of left parentheses.

=> s 11 and ((muramyl (w) tripoptide or mtp))

1 FILE BIOTECHABS

1 FILE BIOTECHABS

1 FILE BIOTECHDS

2 FILE CAPTUS

- TITE CAPTUS

FILE ESBIOBASE EMBASE DGENE

30 FILES SEARCHED...

1 FILE IFIPAT

68 FILES SEARCHED...

1 FILE WPINDEX FILE MEDLINE
FILE SCISEARCH
FILE USPATFULL
FILE USPAT2
FILE WPIDS

14 FILES HAVE ONE OR MORE ANSWERS, 70 FILES SEARCHED IN STNINDEX

L2 QUE L1 AND ((MURAMYL (W) TRIPEPTIDE OR MTP))

FULL ESTIMATED COST => file hits COST IN U.S. DOLLARS

SINCE FILE ENTRY 3.05

TOTAL SESSION 3.26

FILE 'USPATFULL' ENTERED AT 17:07:27 ON 08 FEB 2006
CA INDEXING COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE 'IFIPAT' ENTERED AT 17:07:27 ON 08 FEB 2006 COPYRIGHT (C) 2006 IFI CLAIMS(R) Patent Services (IFI)

FILE 'WPIDS' ENTERED AT 17:07:27 ON 08 FEB 2006

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FILE 'WPINDEX' ACCESS NOT AUTHORIZED

=> s 12 L3 24 1.2

DUPLICATE IS NOT AVAILABLE IN 'DGENE'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L3 7

15 DUP REM L3 (9 DUPLICATES REMOVED)

• d 14 bib ab 1-15

ANSWER 1 OF 15 USPATFULL on STN 2005:234109 USPATFULL

T Z Z

bone marrow, HLRRBM1 Human leucine-rich repeat containing protein expressed predominately in

Ħ Feder, John N., Belle Mead, NJ, UNITED STATES
Ramanathan, Chandra S., Wallingford, CT, UNITED STATES
Mintier, Gabriel A., Hightstown, NJ, UNITED STATES Bol, David, Langhorne, PA, UNITED STATES

Hawken, Donald R., Lawrenceville, NJ, UNITED STATES
US 2005203048 A1 20050915

PI AI US 2005-107572 A1 20050415 (11)

Division of Ser. No. US 2002-183770, filed on 27 Jun 2002, PENDING Continuation-in-part of Ser. No. US 2001-28374, filed on 20 Dec 200 Dec 2001,

US 2000-257773P ABANDONED 20001222 (60)

PRAI FS APPLICATION

LREP STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000, US

CLAN Number of Claims: 12

ECL Exemplary Claim: 1-13

DRWN 12 Drawing Page(s)

LN.CNT 12553

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides nove BOX 4000, PRINCETON, NJ, Number of Claims: 12 Exemplary Claim: 1-13

The present invention provides novel polynucleotides encoding HIRREM1 polypeptides, fragments and homologues thereof. Also provided are vectors, host cells, antibodies, and recombinant and synthetic methods

polypeptides to the diagnosis, treatment, and/or prevention of various diseases and/or disorders related to these polypeptides, particularly immune diseases and/or disorders. The invention further relates to screening methods for identifying agonists and antagonists of the for producing said polypeptides. The invention further relates to diagnostic and therapeutic methods for applying these novel HI.RREMI polynucleotides and polypeptides of the present invention.

- ANSWER 2 OF 15 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation 9
- 1 9 Z 2005:1093479 SCISEARCH
- The Genuine Article (R) Number: 978VT
- acid-type peptidoglycan fragments by human peptidoglycan proteins I alpha and S Selective recognition of synthetic lysine and meso-diaminopimelic recognition
- ۶ Kumar S; Roychowdhury A; Ember B; Wang Q; Guan R J; Mariuzza R A (Reprint); Boons G J
- S Univ Georgia, Complex Carbohydrate Res Ctr, 315 Riverbend Rd, Athens, GA 30602 USA; Univ Georgia, Complex Carbohydrate Res Ctr, Athens, GA 30602 USA; Univ Maryland, Inst Biotechnol, Ctr Adv Res Biotechnol, WM Keck Lab Struct Biol, Rockville, MD 20850 USA USA mariuzza@carb.nist.gov; gjboons@ccrc.uga.edu
- SS CX JOURNAL OF BIOLOGICAL CHEMISTRY, (4 NOV 2005) Vol. SSN: 0021-9258. 280, No. 44, pp
- PB AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 9650 ROCKVILLE PIKE, BETHESDA, MD 20814-3996 USA.
- Article; Journal English
- Reference Count: 45
- E RE S Entered STN: 10 Nov 2005

- Last Updated on STN: 10 Nov 2005

 ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

 *The interactions of a range of synthetic peptidoglycan derivatives with PGRP-I alpha and PGRP-S have been studied in real-time using surface plasmon resonance. A dissociation constant of K-D = 62 um M was obtained for the interaction of peptidoglycan recognition protein (PGRP)-I alpha with the lysine-containing muramyl pentapeptide (compound 6). The normalized data for the lysine-containing muramyl tetra- (compound 5) and pentapeptide (compound 6) showed that these compounds have similar affinities, whereas a much lower affinity for ***muramyl***

 tripeptide (compound 3) was measured. Similar affinities were the property of the stripeptide of the s
- binding profiles were rationalized by using a recently reported x-ray crystal structure of PGRP-I alpha with the lysine-containing muramyltripeptide (4). that the muramyltripeptide (compound 4) is the smallest peptidoglycan fragment that can be recognized by PGRP-I alpha. Surprisingly, PGRP-S derived significantly higher affinities for the DAP-containing fragments to similar lysine-containing derivatives, and the following dissociation constants were measured: muramylpentapeptide-DAP, K-D = 104 nM; muramyltetrapeptide-DAP, 92.4 nM; and muramyltripeptide-DAP, 326 nM. The obtained when the lysine moiety of the muramyl peptides was replaced by meso-diaminopimelic acid (DAP). Furthermore, the compounds that contained only a stem peptide (pentapeptide, compound 1) and (DAP-PP, compound 2) as well as muramyldipeptide (compound 3) exhibited no binding indicating

1882 2005565962 MEDLINE PubMed ID: 16115863 ANSWER 3 OF 15 MEDLINE on STN

3 Sansonetti Philippe J; Philpott Dana J; Dharancy Sebastien; Girardin Stephen E The frameshift mutation in Nod2 results in unresponsiveness not only to Nod2- but also ***Nod1*** -activating peptidoglycan agonists.

Netea Mihai G; Ferwerda Gerben; de Jong Dirk J; Werts Catherine; Boneca Ivo G; Jehanno Muguette; Van Der Meer Jos W M; Mengin-Lecreulx Dominique;

S Center, The Netherlands. Department of Internal Medicine, Radboud University Nijmegen Medical

E E E E E E S United States The Journal of biological chemistry, (2005 Oct 28) 280 (43) 35859-67 Electronic Publication: 2005-08-22. Journal code: 2985121R. ISSN: 0021-9258.

riority Journals

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prevalent in Crohn disease patients. Muramyl dispetide from bacterial peptidoglycan is the minimal motif detected by Nod2 but not by Nod2fs. Here we investigated the response of human peripheral blood mononuclear cells (PBMCs) from Crohn disease patients not only to muramyl dipeptide but also to several other muramyl peptides. Most unexpectedly, we observed that patients homozygous for the Nod2fs mutation were totally unresponsive to MurNac-L-Ala-D-Glu-meso-diaminopimelic acid (DAP) (M-Tri(DAP)), the specific agenist of **Nod1***, and to Gram-negative bacterial peptidoglycan. In contrast, Form a patient homozygous for the Nod2 R702W mutation, also associated with Crohn disease, displayed normal response to Gram-negative bacterial peptidoglycan. In addition, the blockage of the **Nod1*** /M-Tri(DAP) pathway could be partially overcome by co-stimulation with the Toll-like receptors agenists
lipoteichoic acid or lipopolysaccharide. Investigation into the mechanism of this finding revealed that Nod2fs did not act as a dominant-negative molecule for the ***Nod1*** /M-Tri(DAP) pathway implying that the with muramyl peptides. We proposed that through a scavenger function, peptidoglycan recognition protein S may dampen M-Tri(DAP)-dependent responses in Nod2fe patients. Together, our results identified a cross-talk between the ***Nod1*** and Nod2 pathways and suggested to the cross-talk between the ***Nod1*** and Nod2 pathways and suggested to the cross-talk between the ***Nod1*** and Nod2 pathways and suggested to the cross-talk between the ***Nod1*** and Nod2 pathways and suggested to the cross-talk between the cross-talk molecule for the ***Nod1*** /M-Tri(DAP) pathway, implying that the blockage is dependent upon the expression or activity of other factors. We demonstrated that PBMCs from Nod2fs patients express high levels of the peptidoglycan recognition protein S, a secreted protein known to interact Last Updated on STN: 20060105
Entered Medline: 20060104
NOD2/CARD15 is the first characterized susceptibility gene in Crohn disease. The Nod2 1007fs (Nod2fs) frameshift mutation is the most down-regulation of ** Journal; Article; (JOURNAL ARTICLE) Entered STN: disease. ***Nod1*** /M-Tri(DAP) pathway may be associated and Nod2 pathways and suggested that

Ľ ANSWER 4 OF 15 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation

2005:1154463

1 G &

The Genuine Article (R) Number: 983LD Synthesis and proinflammatory properties of muramyl lysine and diaminopimealic acid moieties Roychowdhury A; Wolfert M A; Boons G J (Reprint) tripeptides containing

Univ Georgia, Complex Carbohydrated Res Ctr, 315 Riverbend Rd, Athens, 30602 USA (Reprint); Univ Georgia, Complex Carbohydrated Res Ctr, Ather gjboons@ccrc.uga.edu GA 30602 USA £

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SS CHEMBIOCHEM, (NOV 2005) Vol. 6, No. 11, pp. 2088-2097

ISSN: 1439-4227. WILEY-V C H VERLAG GMBH, PO BOX 10 11 61, D-69451 WEINHEIM, GERMANY.

Article; Journal

E REC PH Entered STN: 1 Dec 2005

groups. The resulting compounds were appropriately protected for the polymer-supported and solution-phase synthesis of muramyl tripaptides 2 and 3, which differ in the amidation of the a-carboxylic acids of the isoglutamine and DAP moieties. Muramyl dipaptide (1, MDP), the DAP-conteining ""muramyl": ""tripaptide": 3, and the lysine-containing muramyl tripaptides 4 and 5 induced TNF-alpha gene expression without TNF-a protein production in a human monocytic cell line. The observed block in translation could be removed by co-incubation with LPS, resulting in an apparent synergistic effect. Compound 2 did not induce TNF-alpha gene expression, neither did it exhibit a synergistic effect with LPS; this indicates that amidation of the a-carboxylic acids of the isoglutamine and DAP moieties results in a loss of biological Last Updated on STN: 1 Dec 2005

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

The unusual amino acid diaminopimelic acid (DAP) was prepared by cross
metathesis of appropriately protected vinyl glycine and allyl glycine
derivatives. Catalytic hydrogenation of the cross-coupling product ***Nod1*** synergistic effect of muropeptides with LPS. activity. It is proposed that amidation of a-carboxylic acids is a strategy that may be used by pathogens to avoid detection by the innate immune system. Furthermore, the pattern recognition receptors resulted in reduction of the double bond and the removal of protecting and Nod2 have been implicated in the possible induction of

ANSWER 5 OF 15 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation 9

2005:849129 SCISEARCH

1 G & The Genuine Article (R) Number: 9550H

NOD-LRR proteins: Role in host-microbial interactions and inflammatory

Inohara N (Reprint); Chamaillard M; McDonald C;

S &

Inonara N (Reprint); Chamaillard M; McDonald C; Nunez G Univ Michigan, Dept Pathol, Ann Arbor, MI 48109 USA (Reprint); Univ Michigan, Ctr Comprehens Canc, Ann Arbor, MI 48109 USA

ino@umich.edu; mathiasc@umich.edu; mcdonalc@umich.edu; bclx@umich.edu

ANNUAL REVIEW OF BIOCHEMISTRY, (2005) Vol. 74, pp. 355-383

ANNUAL REVIEWS, 4139 EL CAMINO WAY, PO BOX 10139, PALO ALTO, CA 94303-0139 USA.

В SO

General Review; Journal

Reference Count: 166

REC EBC Entered STN: 1 Sep 2005

LAST Updated on STN: 1 Sep 2005
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

Nods are cytosolic proteins that contain a nucleotide-binding oligomerization domain (NOD). These proteins include key regulators of apoptosis and pathogen resistance in mammals and plants. A large number of Nods contain leucine-rich repeats (LRRs), hence referred to as NOD-LRR proteins. Genetic variation in several NOD-LRR proteins, including human Nod2, Ctyopyrin, and CIITA, as well as mouse Naip5, is associated with inflammatory disease or increased susceptibility to microbial infections. ***Nod1*** , Nod2, Cryopyrin, and Ipaf have been implicated in

B

protective

immune responses against pathogens. Together with Toll-like receptors,

Noal and Noa2 appear to play important roles in innate and
acquired immunity as sensors of bacterial components. Specifically, Nod 1
and Nod2 participate in the signaling events triggered by host recognition
of specific motifs in bacterial peptidoglycan and, upon activation, induce
the production of proinflammatory mediators. Naip5 is involved in host
resistance to Legionella pneumophila through cell autonomous mechanisms,
whereas CITA plays a critical role in antigen presentation and
development of antigen-specific T lymphocytes. Thus, NOD-LRR proteins
appear to be involved in a diverse array of processes required for host immune reactions against pathogens.

DUPLICATE 2

LN. CMT 1355

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for modulating Nod 1 activity wherein said method comprises

AB A method for modulating nod 1 activity wherein said method comprises ECT PI PRAI DT FS LREP 1225 PH ä 155 ***Nod1*** activity, and therapeutic applications thereof
Sansonetti, Philippe; Girardin, Stephen; Philpott, Dana; Boneca, Ivo
Institut Pasteur, Fr.; Institut National de la Sante et de la Recherche A method for modulating ANSWER 6 OF 15 USPATFULL on STN 2004:824122 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 3 Finnegan Henderson Farabow Garrett & Dunner, Suite 700, 1300 I Street, N.W., Washington, DC, 20005
Number of Claims: 34 Sansonetti, Philippe, Paris, FRANCE Boneca, Ivo, Vitry Sur Seine, FRANCE US 2004235735 Al 20040125 US 2004-808735 Al 20040325 (10) US 2003-457572P 20030327 (60) 2004:299866 USPATFULL Method for modulating steps of providing cells expressing a functional Nod 1; and bringing said cells into contact with a molecule related to compositions comprising a molecule related to "**MTP*** and use of a molecule related to "**MTP*** for modulating inflammation and/or apoptosis applications thereof Girardin, Stephen, Vi Exemplary Claim: 1 APPLICATION Philpott, Dana, Vincennes, FRANCE related molecule for modulating ***Nod1*** Drawing Page(s) CAPLUS Vincennes, FRANCE ***Nod1*** activity, use of a ***muram;
MTP)-related molecule for modulating ***Nod1*** for modulating inflammation and/or apoptosis activity, use of a ***MTP***
*Nod1*** activity, and therapeutic ***muramyl***

The present invention provides novel polynucleotides encoding HLRRSI1

CA 2520662 AA 20041027
EP 1613958 AZ 20060111
R: AT, BE, CH, DE, DK, ES, FR, GB
1E, SI, LT, LV, FI, RO, MK, CY, PRAI US 2003-457572P W0 2004-1B1318 W 20030327
W0 2004-1B1318 W 20030327 PI AI RLI PRAI DT 12 8 5 so LN. CNT 14389
CAS INDEXING IS AVAILABLE FOR THIS PATENT. FAN.ONT £ 5 WO 2004086039
WO 2004086039
WO 2004086039
W: AE, AG The invention discloses a method for modulating ***Nod1*** active which comprises providing cells expressing a functional ***Nod1*** bringing the cells into contact with a mol. related to ***MTP*** invention also discusses the use of a mol. related to ***MTP*** invention also discusses the use of a mol. related to ***MTP*** invention further invention ANSWER 8 OF 15 USPATFULL on STN PATENT NO. PCT Int. Appl., 43 pp. bacteria in a sample. discloses the methods for e.g. detection of peptidoglycan from a Gram-neg English Patent CODEN: PIXXD2 STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000
Number of Claims: 10
Exemplary Claim: 1 US 2004-882761 A1 20040701 (10)
Division of Ser. No. US 2001-29347, filed on
US 2000-257774P 20001222 (60) Feder, John N., Belle Mead, NJ, UNITED STATES
Ramanathan, Chandra S., Wallingford, CT, UNITED STATES
Mintier, Gabriel A., Hightstown, NJ, UNITED STATES Novel human leucine-rich repeat containing protein expressed predominately in small intestine, HLRRSI1 APPLICATION US 2004265890 16 Drawing Page(s) 2004:334808 ₽W: AE, AG, CO, GE, GH, LR, LR, NO, NZ, TJ, TM, BY, KG, ES, FI, SK, TR, USPATFULL 2 2 CF RU THU CZ AT 20041230 20041007 20041104 20050113 DATE i ę ę ę ę ę i 성성 GB, GR, IT, CY, AL, TR, IT, US 2004-808735 CA 2004-2520662 EP 2004-724084 IS DZ BB WO 2004-IB1318 APPLICATION NO. 20 BG, CZ, TZ C S M S E R Dec 2001, PENDING GR CK CK KG EG K EE, X 3 2 2 2 2 3 4 4 *** activity SE, MC, FI, KR, KR, SK, ZA, RO, RO, RR, 20040325 20040329 20040329 20040329 IU, PL, SK DATE 20040329 SN SE SW N L GH

polypeptides, fragments and homologues thereof. Also provided are vectors, host cells, antibodies, and recombinant and synthetic methods for producing said polypeptides. The invention further relates to diagnostic and therapeutic methods for applying these novel HLRRSII polypeptides to the diagnosis, treatment, and/or prevention of various diseases and/or disorders related to these polypeptides, particularly gastrointestinal diseases and/or disorders. The invention further relates to screening methods for identifying agonists and antagonists of the property of the pro the polynucleotides and polypeptides of the present invention.

ANSWER 9 OF 15 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation 2005:322248 BIOSIS

on STN

CLMN Number
ECL Exempl
DRWN 12 Draw
LN.CNT 12615
CAS INDEXING
AB The pr PRAI DT FS LREP AI ħ Z 125 **8** € ဌ ည္သ လွ 1225 ۶ INDEXING IS AVAILABLE FOR THIS PATENT. ANSWER 10 OF 15 USPATFULL on STN 2003:257761 USPATFULL Novel human leucine-rich repeat containing protein expressed Osaka Univ, Grad Sch Sci, Dept Chem, Osaka 5600043, Japan Glycobiology, (NOV 2004) Vol. 14, No. 11, pp. 1199-1200.
Meeting Info.: Joint Meeting of the Society-for-Glycobiology/Japanese-Society-for-Carbohydrate-Research. Honolulu, HI, USA. November 17 -20, Host recognition of peptidoglycan by intracellular receptor ***Nodi** and Nod2, investigation with synthetic partial structures.

Kawasaki, Akiko [Reprint Author]; Inamura, Seiichi; Shimoyama, Atsushi; Inohara, Nachiro; Nunez, Gebriel; Fujimoto, Yukari; Fukase, Koichi; Kusumoto, Shoichi Entered STN: 25 Aug 2005 Last Updated on STN: 25 Aug 2005 STEPHEN B. DAVIS, BRIS BOX 4000, PRINCETON, N Number of Claims: 13 Exemplary Claim: 1 English Conference; Abstract; (Meeting Abstract) Conference; PREV200510112030 The present invention provides novel polynucleotides encoding HIRREM1 polypeptides, fragments and homologues thereof. Also provided are vectors, host cells, antibodies, and recombinant and symthetic methods for producing said polypeptides. The invention further relates to diagnostic and therapeutic methods for applying these novel HIRREM1 predominately in bone marrow, HLRRBM1
Feder, John N., Belle Mead, NJ, UNITED STATES
Ramanathan, Chandra S., Wallingford, CT, UNITED STATES
Mintier, Gabe, Hightstown, NJ, UNITED STATES
Mintier, Gabe, Hightstown, NJ, UNITED STATES
MINTIES STATES
MI US 2003180812 A1 20030925 US 6949363 B2 20050927 US 2002-183770 A1 20020627 (10) Continuation-in-part of Ser. No. US 2001-28374, APPLICATION US 2000-257773P PENDING Drawing Page(s) 0959-6658. Soc Gylcobiol; Japanese Soc Carbohydrate Res. (Meeting) BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O DN, NJ, 08543-4000 20001222 (60) filed on 20 Dec 2001,

polypeptides to the diagnosis, treatment, and/or prevention of various diseases and/or disorders related to these polypeptides, particularly immune diseases and/or disorders. The invention further relates to screening methods for identifying agonists and antagonists of the polynucleotides and polypeptides of the present invention.

CLMN ECL DRWN AI PRAI DT LREP LN. CNT 1421 CAS INDEXIN PI 125 INDEXING IS AVAILABLE FOR THIS PATENT. ANSWER 12 OF 15 USPATFULL on STN 2003:265252 USPATFULL ANSWER 11 OF 15 2003:23722 US STEPHEN B. DAVIS, BRIS BOX 4000, PRINCETON, N Number of Claims: 23 Exemplary Claim: 1 polypeptides to the diagnosis, treatment, and/or prevention of various diseases and/or disorders related to these polypeptides, particularly gastrointestinal diseases and/or disorders. The invention further relates to screening methods for identifying agonists and antagonists of vectors, host cells, antibodies, and recombinant and synthetic methods for producing said polypeptides. The invention further relates to diagnostic and therapeutic methods for applying these novel HIRRSII Feder, John N., Belle Mead, NJ, UNITED STATES
Ramanathan, Chandra S., Wallingford, CT, UNITED STATES
Mintier, Gabriel A., Hightstown, NJ, UNITED STATES The present invention provides novel polynucleotides encoding HLRRSI1 polypeptides, fragments and homologues thereof. Also provided are 9 Drawing Page(s) US 2003017562 the polynucleotides APPLICATION US 2000-257774P US 2001-29347 predominately in small intestine, HLRRSI1 Novel human leucine-rich repeat containing protein expressed US 6858407 USPATFULL USPATFULL on STN BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O ON, NJ, 08543-4000 A1 A1 and polypeptides of the present invention. 20001222 (60) 20050222 20011220 (10) 20030123 UNITED STATES DUPLICATE 5

CLMN ECL DRWN LN. CMT 14036

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention next in the present invention next in the present invention next inventi LREP PI AI PRAI DT 1417 STEPHEN B. DAVIS, BRIS BOX 4000, PRINCETON, N Number of Claims: 20 Exemplary Claim: 1 US 2002-271078 US 2001-328478P Novel human leucine-rich repeat domain containing protein, HLLRCR-1 Feder, John N., Belle Mead, NJ, UNITED STATES
Ramanathan, Chandra S., Wallingford, CT, UNITED STATES
Mintler, Gabriel, Hightstown, NJ, UNITED STATES
US 2003186267 Al 20031002 14 Drawing Page(s) APPLICATION BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O DN, NJ, 08543-4000 A1 20021011 20011011 (60) 20031002 20021011 (10)

The present invention provides novel polynucleotides encoding HLLRCR-1 polypeptides, fragments and homologues thereof. Also provided are

diseases and/or disorders related to these polypeptides, particularly nervous system diseases and/or disorders. The invention further relates to screening methods for identifying agonists and antagonists of the vectors, host cells, antibodies, and recombinant and synthetic methods for producing said polypeptides. The invention further relates to diagnostic and therapeutic methods for applying these novel HLRGR-I polypeptides to the diagnosis, treatment, and/or prevention of various polynucleotides and polypeptides of the present invention.

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ECL Exemplary Claims: 23

ECL Exemplary Claim: 1

DRWN 11 Drawing Page(s)

LN.CNT 13850

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides nove:
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                                                                                                                                                                                                                                                                                                         Novel human leucine-rich repeat containing protein expressed predominately in nervous system tissues, HLRRNS1 Feder, John N., Belle Mead, NJ, UNITED STATES Ramanathan, Chandra S., Wallingford, CT, UNITED STATES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention provides novel polynucleotides encoding HLRREM1 polypeptides, fragments and homologues thereof. Also provided are vectors, host cells, antibodies, and recombinant and synthetic methods for producing said polypeptides. The invention further relates to diagnostic and therapeutic methods for applying these novel HLRREM1 polypeptides to the diagnosis, treatment, and/or prevention of various diseases and/or disorders related to these polypetides, particularly immune diseases and/or disorders. The invention further relates to screening methods for identifying agonists and antagonists of the polypucceotides and polypeptides of the present invention.
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Feder, John N., Belle Mead, NJ, UNITED STATES
Ramanathan, Chandra S., Wallingford, CT, UNITED STATES
Mintier, Gabe, Hightstown, NJ, UNITED STATES
US 2003143706
A1 20030731
US 2001-28374
A1 20011220 (10)
                           STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000 Number of Claims: 23 Exemplary Claim: 1
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                                                                                                                                                                                        US 2001-260616P
                                                                                                                                                                                                              US 2001-28392
US 2001-259479P
                                                                                                                                                                                                                                                                  Mintier, Gabe, Hightstown, NJ, UNITED STATES US 2003087340 A1 20030508
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Number of Claims: 23
Exemplary Claim: 1
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12 Drawing Page(s)
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LN. CNT 15374

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides nove The present invention provides novel polynucleotides encoding HLRRNS1 polypeptides, fragments and homologues thereof. Also provided are vectors, host cells, antibodies, and recombinant and synthetic methods for producing said polypeptides. The invention further relates to diagnostic and therapeutic methods for applying these novel HLRRNS1 polypeptides to the diagnosis, treatment, and/or prevention of various diseases and/or disorders related to these polypeptides, particularly nervous system diseases and/or disorders. The invention further relates to screening methods for identifying agonists and antagonists of the polynucleotides and polypeptides of the present invention.

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WO 2004086039 A2 20041007
WO 2004-IB1318 20040329
US 2003-457572P 20030777
Patent
inflammation and/or apoptosis, for enhancing the immune response of a host or as an adjuvant agent in eukaryotes. The present sequence is that or a poptide which was used in the exemplification of the method of the
                                                                             be useful for the production of compounds with an antiinflammatory, of cytostatic or antibacterial activity acting as agonists or antagonists of ***Nodi*** protein or a vaccine. The method is useful for modulating activity and for preventing or treating a Gram-negative bacteria infection. The invention is also useful for increasing in vivo
                                                                                                                                                                                                                       This invention relates to a novel method of modulating ***Nod!*** in activity, which comprises expressing a functional ***Nod!*** in eukaryotic cell, and contacting the cell with a molecule related to ***murramy!*** ***tripeptide*** ( ***MTP*** ). The invention
                                                                                                                                                                                                                                                                                                                                          2004-737364 [72]
***Nod1*** a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Modulating ***Nod1*** activity, involves expressing functional ***Nod1*** in eukaryotic cell and contacting cell with molecule related to ***muramy1*** ***tripeptide***
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15 DUP REM L3 (9 DUPLICATES REMOVED)
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1 FILE WPIDS
1 FILE WPINDEX
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FILE WPIDS
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TOTAL

35 FILES SEARCHED...

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51 FILE ADISCTI
1 FILE ADISINSIGHT
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6 FILE BIOTECHAS
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90 FILE BIOTECHAO
17 FILE CABA
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69 FILES SEARCHED... 20 FILE WPINDEX 50 FILES SEARCHED... 65 FILES SEARCHED... 58 FILES 213 375 9 8 20 SEARCHED... FILE IFIPAT
FILE INSDRUGNEMS
FILE INSRESEARCH
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FILE PROUSDDR FILE VETU FILE WATER FILE WPIDS FILE SCISEARCH FILE SYNTHLINE FILE TOXCENTER FILE USPAT2 FILE USPATFULL

44 FILES HAVE ONE OR MORE ANSWERS, 70 FILES SEARCHED IN STNINDEX

QUE MURAMYL TRIPEPTIDE

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DUPLICATE 1

SS &

Synthesis and proinflammatory properties of muramyl tripeptides containing lysine and diaminopimelic acid moieties.

Roychordhury A.; Wolfert M.A.; Boons G.-J.

Prof. G.-J. Boons, Complex Carbohydrate Research Center, University of Georgia, 315 Riverbend Road, Athens, GA 30602, United States.

gjboons@ccrc.uga.edu ChembioChem, (2003) Vol. 6, No. 11, pp. 2088-2097.

So

ISSN: 1439-4227 CODEN: CBCHFX

FS CY Journal; Article

Microbiology

Pharmacology
Drug Literature Index

SL Entered STN: 20051201

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groups. The resulting compounds were appropriately protected for the polymer-supported and solution-phase synthesis of muramyl tripeptides 2 and 3, which differ in the amidation of the alpha.-carboxylic acids of the isoglutamine and DAP moieties. Muramyl dipeptide (1, MP), the DAP-containing "**muramyl** "**tripeptide** 3, and the syression without TNF-alpha. protein production in a human monocytic cell line. The observed block in translation could be removed by co-incubation with LPS, resulting in an apparent synergistic effect. Compound 2 did not induce TNF-alpha gene expression, neither did it exhibit a synergistic effect with LPS; this indicates that amidation of the alpha.-carboxylic acids of the isoglutamine and DAP moieties results in a loss of biological activity. It is proposed that amidation of alpha.-carboxylic acids is a strategy that may be used by pathogens to avoid detection by the innate immune system. Furthermore, the pattern recognition receptors "**Nod!** and Nod2 have been implicated in the possible induction of a synergistic effect of muropeptides with LPS.

.ODPYRGT. 2005 Wiley-VCH Verlag GmbH & Co. KGaA. The unusual amino acid diaminopimelic acid (DAP) was prepared by cross metathesis of appropriately protected winyl glycine and allyl glycine derivatives. Catalytic hydrogenation of the cross-coupling product resulted in reduction of the double bond and the removal of protecting Last Updated on STN: 20051201

ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 2

2004:824122 CAPLUS

1 2 2 L ***tripeptide*** (MTP)-related molecule for modulating ***Nod1*** activity, and therapeutic applications thereof Sansonetti, Philippe; Girardin, Stephen; Philipott, Dana; Boneca, Ivo Institut Pasteur, Fr.; Institut National de la Sante et de la Recherche A method for modulating ***Nod1*** activity, use of a ***muramyl***

PCT Int. Appl., 43 pp. CODEN: PIXXD2 Patent English CQT COTEN: PIXXD2 PATENT NO.	æ	PRAI	SO PCODT Par LA En
KIND DATE APPLICATION NO. DATE A2 20041007 A2 20041104 A3 20050113 A3 20050113 A3 20050113 A3 20050114 A3 20050114 A3 20050115 A3 20050115 A3 20050115 A3 20050116 A3 20050117 A3 20050117 A3 20050117 A3 20050118 A4 20050118 A5 20050118 A6 20050118 A7 20050119 A8 20050119 A8 20050119 A8 20050119 A9 20050111 A9 2005011 A9 2	WO 2004-IB131 The invention comprises pro cells into co discusses the /or apoptosis detection of		Medicale PCT Int. Appl CODEN: PIXXD2 Patent English CONT 1 PATENT NO.
KIND DATE APPLICATION NO. DATE A2 20041007 WO 2004-IB1318 2004(C1 20041104 A3 20050113 AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CW, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, HR, HU, ID, IL, IN, IS, JT, KE, KG, KF, KR, KZ, LT, LU, LV, MA, MD, MG, MY, MN, MM, MZ, SD, SL, SZ, TZ, UG, CM, YU, ZA, ZM, KE, LS, MM, KZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, KE, LS, MM, KZ, SD, SL, SZ, TZ, UG, ZM, ZM, AM, KE, LS, MH, HI, FI, IU, MC, NL, PL, FI, RO, SE, BG, CH, CY, CZ, DE, DK, GB, GR, HU, IE, IT, LU, MC, NL, PL, FT, RO, SE, BG, CH, CY, CZ, DE, DK, CM, CM, CM, CM, CM, CM, MR, NE, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, A2 20041007 CA 2004-724084 DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MG, LY, FI, RO, MX, CY, AL, TR, BG, CZ, EE, HU, PL, PL, PL, PL, PL, PL, PL, PL, PL, PL	disc vidin ntact use The peptic		
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ANSWER 3 OF 4 USPATFULL on STN 2004:299866 USPATFULL

12 8 5

ä Method for modulating Nod1 activity, use of a MTP related molecule for modulating Nod1 activity, and therapeutic applications thereof Girardin, Stephen, Vincennes, FRANCE Philpott, Dana, Vincennes, FRANCE Philpott, Dana, Vincennes, FRANCE Sansonetti, Philippe, Paris, FRANCE

Boneca, Ivo Vitry Sur Seine, FRANCE US 2004235735 Al 20041125 US 2004-886735 Al 20040325 (10) US 2003-457572P 20030327 (60)

PI AI PRAI DT FS LREP Finnegan Henderson Farabow Garrett & Dunner, Suite 700, 1300 I Street, N.W., Washington, DC, 20005
Number of Claims: 34
Exemplary Claim: 1 APPLICATION

CIAN Number of Claims: 34

ECL Exemplary Claim: 1

DRWN 26 Drawing Page(s)

LN.GNT 1355

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for modulating Nod 1 activity wherein said method comprises the

steps of providing cells expressing a functional Nod 1; and bringing said cells into contact with a molecule related to compositions comprising a molecule related to MTP and use of a molecule related to MTP for modulating inflammation and/or apportunit.

- 1 8 8 L3 ANSWER 4 OF 4 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on 2005:322248 BIOSIS PREV200510112030 STN
- Host recognition of peptidoglycan by intracellular receptor Nodl and Nod2, investigation with synthetic partial structures.

 Kewasaki, Akiko [Reprint Author]; Inamura, Selichi; Shimoyama, Atsushi; Inohara, Nachiro; Nunez, Gabriel; Fujimoto, Yukari; Fukase, Koichi; Kusumoto, Shoichi
- SO Osaka Univ, Grad Sch Sci, Dept Chem, Osaka 5600043, Japan Glycobiology, (NOV 2004) Vol. 14, No. 11, pp. 1199-1200.
 Meeting Info.: Joint Meeting of the Society-for-Glycobiology/Japanese-Society-for-Carbohydrate-Research. Honolulu, HI, USA. November 17 -20, 2004. Soc Gylcobiol; Japanese Soc Carbohydrate Res.
 ISSN: 0959-6658.
- ဌ Conference; (Meeting)
 Conference; Abstract; (Meeting Abstract)
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- English
 Entered STN: 25 Aug 2005
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248 DAP
                                (L(W)ALA(W)D(W)GLU(W)MESODAP)
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⇔> s ala => \$ 16 (2w) 17 (2w) 15 L8 0 L6 (2w) L7 (2w) L5 5 🕻 -> d his s glu 26646 GLU 33843 ALA

(FILE 'HOME' ENTERED AT 14:54:01 ON 16 FEB 2006)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHAB, ENOTECHAB, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGG, DRUGG, DRUGG, EMBAL, EMBASS, ...' ENTERED AT 14:54:10 ON 16 FEB 2006 SEA MURAMYL TRIPEPTIDE

L6 L7

O.OO

TOTAL SESSION -0.75

ENTRY 39.40

TOTAL SESSION 86.64

5 5

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FILE AGRICOLA
FILE BLOSTS
FILE BIOTECHAS
FILE BIOTECHAS
FILE BIOTECHOS
FILE BIOTECHOS
FILE BIOTECHOS
FILE BIOTECHOS
                                                                                                    FILE ADISINSIGHT FILE ADISNEWS
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
CA SUBSCRIBER PRICE
                                                                       FULL ESTIMATED COST
                                                                                                             COST IN U.S. DOLLARS
                                                                                                                             => log h
                                                                                                                                                                                                                                                                                                 FILE 'USPATFULL, BIOSIS, EMBASE, MEDLINE, TOXCENTER, SCISEARCH, CAPLUS, DRUGJ, PASCAL, BIOTECHO, LIESCI, ADISCTI, PROMT, ESBIOBASE, USPAT2, VETU, IFIPRT, WPIDS, CABA, BIOENG' ENTERED AT 14:58:08 ON 16 FEB 2006 9 S L1 (P) (NODI OR CARDA)
4 DUP REM L2 (5 DUPLICATES REMOVED)
                                                                                                                                                                                                                                                               FILE 'REGISTRY' ENTERED AT 14:59:49 ON 16 FEB 2006
                                                                                                                                                                   0 S L-ALA-D-GLJ-MESODAP
248 S DAP
33843 S ALA
26646 S GLU
0 S L6 (2W) L7 (2W) L5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILE DRUGJ
FILE EMBASE
FILE ESBOBASE
FILE IFIPAT
FILE IMSSEARCH
FILE JICST-EPLUS
FILE LIFESCI
FILE MEDLINE
FILE MEDLINE
FILE MEDLINE
FILE PASCAL
FILE PASCAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILE PHARAMI
FILE PHIN
FILE PROMT
FILE PROMT
FILE SCUSSARCH
FILE SCUSSARCH
FILE SCUSTARCH
FILE SCUSTARCH
FILE USPATFULL
FILE USPATFULL
FILE USPATFULL
FILE USPATFULL
FILE WATER
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FILE CIN
FILE CONFSCI
FILE DDFU
FILE DDFU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILE DGENE
FILE DISSABS
                               SINCE FILE
                                                                                                           SINCE FILE
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